RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/766,605A

Source: TFWD

Date Processed by STIC: 11-18-04

ENTERED

IFWO

RAW SEQUENCE LISTING   DATE: 11/18/2004
PATENT APPLICATION: US/10/766,605A   TIME: 09:33:53

Input Set : A:\SBIO_0002D1.txt
Output Set: N:\CRF4\11182004\J766605A.raw

```
       4  <110> APPLICANT: Chumakov, Peter and Chenchik, Alex
       6  <120> TITLE OF INVENTION: Reporter Vectors for Gene Function Analysis
       9  <130> FILE REFERENCE: SBIO/0002.D1
      11  <140> CURRENT APPLICATION NUMBER: 10/766,605A
C-->  12  <141> CURRENT FILING DATE: 2004-01-27
      14  <150> PRIOR APPLICATION NUMBER: 10/658,632
      15  <151> PRIOR FILING DATE: 2003-08-09
      17  <160> NUMBER OF SEQ ID NOS: 20
      19  <170> SOFTWARE: FastSEQ for Windows Version 4.0
      21  <210> SEQ ID NO: 1
      22  <211> LENGTH: 43
      23  <212> TYPE: DNA
      24  <213> ORGANISM: human
      26  <220> FEATURE:
      27  <221> NAME/KEY: promoter
      28  <222> LOCATION: (1)...(7)
      30  <221> NAME/KEY: misc_RNA
      31  <222> LOCATION: (8)...(30)
      32  <223> OTHER INFORMATION: n=a,t,g,c
W-->  34  <400> 1
W-->  35  ggacgagnnn nnnnnnnnnn nnnnnnnnnn aattcatcta tgt                43
      37  <210> SEQ ID NO: 2
      38  <211> LENGTH: 43
      39  <212> TYPE: DNA
      40  <213> ORGANISM: human
      42  <220> FEATURE:
      43  <221> NAME/KEY: misc_RNA
      44  <222> LOCATION: (12)...(34)
      45  <223> OTHER INFORMATION: n=a,t,g,c
      47  <400> SEQUENCE: 2
W-->  48  cctgctccta gnnnnnnnnn nnnnnnnnnn nnnngtagat aca                43
      50  <210> SEQ ID NO: 3
      51  <211> LENGTH: 59
      52  <212> TYPE: DNA
      53  <213> ORGANISM: human
      55  <220> FEATURE:
      56  <221> NAME/KEY: misc_RNA
      57  <222> LOCATION: (7)...(53)
      59  <400> SEQUENCE: 3
      60  gatccggatg atctggatcc accaattcaa gagattggtg gatccagatc atctttttg  59
      62  <210> SEQ ID NO: 4
      63  <211> LENGTH: 59
      64  <212> TYPE: DNA
```

```
 65 <213> ORGANISM: human
 67 <220> FEATURE:
 68 <221> NAME/KEY: misc_RNA
 69 <222> LOCATION: (3)...(59)
 71 <400> SEQUENCE: 4
 72 gcctactaga cctaggtggt taagttctct aaccacctag gtctagtaga aaaacttaa  59
 74 <210> SEQ ID NO: 5
 75 <211> LENGTH: 75
 76 <212> TYPE: DNA
 77 <213> ORGANISM: human
 79 <220> FEATURE:
 80 <221> NAME/KEY: misc_RNA
 81 <222> LOCATION: (7)...(69)
 83 <400> SEQUENCE: 5
 84 gatccgggtg atctggatct accaaggctt gttttcaaga gaaacaagtc ttggtggatc 60
 85 cagatcatct ttttg                                                   75
 87 <210> SEQ ID NO: 6
 88 <211> LENGTH: 69
 89 <212> TYPE: DNA
 90 <213> ORGANISM: human
 92 <220> FEATURE:
 93 <221> NAME/KEY: misc_RNA
 94 <222> LOCATION: (3)...(59)
 96 <400> SEQUENCE: 6
 97 gcccactaga cctagatggt tcgaaagttc tctttgttca gaaccactag gtctagtaga 60
 98 aaaacttaa                                                          69
100 <210> SEQ ID NO: 7
101 <211> LENGTH: 30
102 <212> TYPE: DNA
103 <213> ORGANISM: human
105 <220> FEATURE:
106 <221> NAME/KEY: unsure
107 <222> LOCATION: (9)...(21)
108 <223> OTHER INFORMATION: n=a,t,g,c
110 <400> SEQUENCE: 7
W--> 111 tgggaaaann nnnnnnnnnn ntttttagag                                 30
113 <210> SEQ ID NO: 8
114 <211> LENGTH: 30
115 <212> TYPE: DNA
116 <213> ORGANISM: human
118 <220> FEATURE:
119 <221> NAME/KEY: unsure
120 <222> LOCATION: (13)...(25)
121 <223> OTHER INFORMATION: n=a,t,g,c
123 <400> SEQUENCE: 8
W--> 124 accctttttt tcnnnnnnnn nnnnnatctc                                 30
126 <210> SEQ ID NO: 9
127 <211> LENGTH: 31
128 <212> TYPE: DNA
```

```
129 <213> ORGANISM: human
131 <220> FEATURE:
132 <221> NAME/KEY: misc_RNA
133 <222> LOCATION: (6)...(31)
134 <223> OTHER INFORMATION: Viral vector sequence
136 <400> SEQUENCE: 9
137 aaaggatgat ctggatccac caagacttgt t                          31
139 <210> SEQ ID NO: 10
140 <211> LENGTH: 31
141 <212> TYPE: DNA
142 <213> ORGANISM: human
144 <220> FEATURE:
145 <221> NAME/KEY: misc_RNA
146 <222> LOCATION: (2)...(27)
147 <223> OTHER INFORMATION: Viral vector sequence
149 <400> SEQUENCE: 10
150 ctactagacc taggtggttc tgaacaaaaa a                          31
152 <210> SEQ ID NO: 11
153 <211> LENGTH: 59
154 <212> TYPE: DNA
155 <213> ORGANISM: human
157 <220> FEATURE:
158 <221> NAME/KEY: misc_RNA
159 <222> LOCATION: (17)...(42)
160 <223> OTHER INFORMATION: n=a,t,g,c
162 <400> SEQUENCE: 11
```
W--> 163 agcagaagac taaaagnnnn nnnnnnnnnn nnnnnnnnnn nnttttatgt cttctacga 59
```
165 <210> SEQ ID NO: 12
166 <211> LENGTH: 19
167 <212> TYPE: DNA
168 <213> ORGANISM: human
170 <220> FEATURE:
171 <221> NAME/KEY: primer_bind
172 <222> LOCATION: (11)...(19)
173 <223> OTHER INFORMATION: Viral vector sequence
175 <400> SEQUENCE: 12
176 acgcaggtgt agcagaaga                                        19
178 <210> SEQ ID NO: 13
179 <211> LENGTH: 59
180 <212> TYPE: DNA
181 <213> ORGANISM: human
183 <220> FEATURE:
184 <221> NAME/KEY: misc_RNA
185 <222> LOCATION: (17)...(42)
186 <223> OTHER INFORMATION: n=a,t,g,c
188 <400> SEQUENCE: 13
```
W--> 189 agcagaagac taaaagnnnn nnnnnnnnnn nnnnnnnnnn nnttttatgt cttctacga 59
```
191 <210> SEQ ID NO: 14
192 <211> LENGTH: 20
```

```
     193 <212> TYPE: DNA
     194 <213> ORGANISM: human
     196 <220> FEATURE:
     197 <221> NAME/KEY: primer_bind
     198 <222> LOCATION: (1)...(11)
     199 <223> OTHER INFORMATION: Viral vector sequence
     201 <400> SEQUENCE: 14
     202 cagaagatgc tcacgacgct                                      20
     204 <210> SEQ ID NO: 15
     205 <211> LENGTH: 78
     206 <212> TYPE: DNA
     207 <213> ORGANISM: human
     209 <220> FEATURE:
     210 <221> NAME/KEY: misc_RNA
     211 <222> LOCATION: (27)...(52)
     212 <223> OTHER INFORMATION: n=a,t,g,c
     214 <400> SEQUENCE: 15
W--> 215 acgcaggtgt agcagaagac taaaagnnnn nnnnnnnnnn nnnnnnnnnn nntttttatgt 60
     216 cttctacgag tgctgcga                                         78
     218 <210> SEQ ID NO: 16
     219 <211> LENGTH: 78
     220 <212> TYPE: DNA
     221 <213> ORGANISM: human
     223 <220> FEATURE:
     224 <221> NAME/KEY: misc_RNA
     225 <222> LOCATION: (27)...(52)
     226 <223> OTHER INFORMATION: n=a,t,g,c
     228 <400> SEQUENCE: 16
W--> 229 tgcgtccaca tcgtcttctg attttcnnnn nnnnnnnnnn nnnnnnnnnn nnaaaataca 60
     230 gaagatgctc acgacgct                                         78
     232 <210> SEQ ID NO: 17
     233 <211> LENGTH: 30
     234 <212> TYPE: DNA
     235 <213> ORGANISM: human
     237 <220> FEATURE:
     238 <221> NAME/KEY: misc_RNA
     239 <222> LOCATION: (5)...(30)
     240 <223> OTHER INFORMATION: n=a,t,g,c
     242 <400> SEQUENCE: 17
W--> 243 aaagnnnnnn nnnnnnnnnn nnnnnnnnnn                            30
     245 <210> SEQ ID NO: 18
     246 <211> LENGTH: 30
     247 <212> TYPE: DNA
     248 <213> ORGANISM: human
     250 <220> FEATURE:
     251 <221> NAME/KEY: misc_RNA
     252 <222> LOCATION: (1)...(26)
     253 <223> OTHER INFORMATION: n=a,t,g,c
     255 <400> SEQUENCE: 18
```

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```
W--> 256 nnnnnnnnnn nnnnnnnnnn nnnnnnaaaa                          30
     258 <210> SEQ ID NO: 19
     259 <211> LENGTH: 44
     260 <212> TYPE: DNA
     261 <213> ORGANISM: human
     263 <220> FEATURE:
     264 <221> NAME/KEY: mRNA
     265 <222> LOCATION: (10)...(35)
     266 <223> OTHER INFORMATION: n=a,t,g,c
     268 <400> SEQUENCE: 19
W--> 269 tgggaaaagn nnnnnnnnnn nnnnnnnnnn nnnnnttttt agag           44
     271 <210> SEQ ID NO: 20
     272 <211> LENGTH: 44
     273 <212> TYPE: DNA
     274 <213> ORGANISM: human
     276 <220> FEATURE:
     277 <221> NAME/KEY: misc_RNA
     278 <222> LOCATION: (10)...(35)
     279 <223> OTHER INFORMATION: n=a,t,g,c
     281 <400> SEQUENCE: 20
W--> 282 acccttttcn nnnnnnnnnn nnnnnnnnnn nnnnnaaaaa tctc           44
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 11/18/2004
PATENT APPLICATION: US/10/766,605A   TIME: 09:33:54

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Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28
Seq#:1; N Pos. 29,30
Seq#:2; N Pos. 12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31
Seq#:2; N Pos. 32,33,34
Seq#:7; N Pos. 9,10,11,12,13,14,15,16,17,18,19,20,21
Seq#:8; N Pos. 13,14,15,16,17,18,19,20,21,22,23,24,25
Seq#:11; N Pos. 17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36
Seq#:11; N Pos. 37,38,39,40,41,42
Seq#:13; N Pos. 17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36
Seq#:13; N Pos. 37,38,39,40,41,42;
Seq#:15; N Pos. 27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46
Seq#:15; N Pos. 47,48,49,50,51,52
Seq#:16; N Pos. 27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46
Seq#:16; N Pos. 47,48,49,50,51,52
Seq#:17; N Pos. 5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25
Seq#:17; N Pos. 26,27,28,29,30
Seq#:18; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23
Seq#:18; N Pos. 24,25,26
Seq#:19; N Pos. 10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29
Seq#:19; N Pos. 30,31,32,33,34,35
Seq#:20; N Pos. 10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29
Seq#:20; N Pos. 30,31,32,33,34,35

VERIFICATION SUMMARY   DATE: 11/18/2004
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```
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:34 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:35 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:48 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:215 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
```